

**Revised Agricultural Suitability
Classification for Special Crops
in the Regional Municipality
of Haldimand - Norfolk**

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by
E.W. Presant

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The revised agricultural suitability ratings in this publication replace the suitability ratings shown on pages 61-65 of Volume 1 of the Soils of the Regional Municipality of Haldimand-Norfolk, Report No. 57 of the Ontario Institute of Pedology, 1984.

The C.L.I. classification system of land capability for agriculture is designed for forages, small grains and corn that are considered to be "common" field crops. It is not designed for field or horticultural crops such as soybeans or peaches, which are henceforth referred to as "special" crops.

Since much of the land in the Haldimand-Norfolk Region is used for growing these special crops, a suitability ratings system was devised for the Region soils, and for the most important special crops.

The ratings are based on information obtained from field observations, agricultural research, extension personnel and relevant literature. Assistance with the original ratings was provided by J. Elliot, N. Sheidow and M. Watson of the Delhi Research Station, and by R. Chard of the Simcoe Horticultural Station.

The concept of lumping special crops into crop groups, according to soil properties, slope group and management factors of drainage and irrigation, was originally adapted from work done by D. Cressman and M. Hoffman* for Ontario Hydro. These crop groups were further modified for the Niagara ratings used in Volume 1 of the Soils of the Regional Municipality of Niagara**. The crop groups that are used in this publication are similar to those used in the Niagara report, as is the format used for the interpretation tables.

In addition to the format change, some revisions were made to original crop or crop group ratings to better correlate with updated information that was used for the Niagara special crop ratings.

*Cressman, D. and M. Hoffman. 1983. Soil rating system for specialty crops in southwestern Ontario. Unpublished report prepared under Ontario Institute of Pedology contract to Ontario Hydro.

**Soils of the Regional Municipality of Niagara, Report No. 60 of the Ontario Institute of Pedology, Volumes 1 and 2 by M.S. Kingston and E.W. Presant, 1989.

(1) Climatic Considerations

Climate is a very important consideration for special crops, many of which are frost susceptible or winter temperature susceptible. Brown and Place* have developed a climatic rating system for horticultural crops grown in southwestern Ontario. This system places the crops into three main groups: frost susceptible, frost tolerant and winter temperature susceptible. It uses a four-point rating system and the corn heat unit map as the primary criteria to subdivide the area for the rating system. The climate section in Volume 1 of Soils of the Regional Municipality of Haldimand-Norfolk outlines temperature, precipitation, growing season and frost data for various stations in the Haldimand-Norfolk Region. Site suitability for most special crops is dependent on microclimate which can be strongly influenced by local factors such as topography, altitude, natural air drainage and proximity to water.

*Brown, D.M. and Place, R.E. 1989. Rating climate in Southwestern Ontario for horticultural crops. Can. J. Plant Sci. 69:325-336

(2) Soil Suitability Classes

The soil suitability classification for special crops consists of seven classes. The best soils, with no significant limitations for crop use, are designated as good. Soils designated with the ratings fair to good, fair, poor to fair, poor and very poor, have decreasing suitability for special crops. Soils with an unsuitable rating have no potential for special crops.

Good (G) - Soils with slight, if any, limitations to growth and yields.

Fair to Good (F-G) - Soils with moderate to slight limitations to growth and yields.

Fair (F) - Soils with moderate limitations to growth and yields.

Poor to Fair (P-F) - Soils with severe to moderate limitations to growth and yields.

Poor (P) - Soils with severe limitations to growth and yields.

Very Poor (VP) - Soils that have very severe limitations for crop growth.

Unsuitable (U) - Soils that have very severe limitations and are considered unsuitable for crop growth, even if drainage or irrigation are applied.

Assumptions

Before using the soil suitability tables, it is important that the user has an understanding of the following assumptions upon which the classification is based. Although the following assumptions have been adapted from those outlined in The Canada Land Inventory Soil Classification for Agriculture*, they also apply to the suitability ratings.

a) Good soil management practices that are feasible and practical under a largely mechanized system of agriculture are assumed. These practices include a proper fertility program, management practices that result in good soil structure and crop growth, and management programs that result in minimum damage or risk of damage to the soil.

b) Distance to markets, accessibility to transport, location, size of farm, field shape and accessibility to machinery, types of ownership, cultural patterns, skill or resources of individual operators, or hazards of crop damage by storms are not considered in this classification system.

c) Soil suitability ratings are subject to change if new technology or management practices are widely adopted, e.g. drainage or irrigation, or as new information about crop yields, or about the behaviour and responses of the soils becomes available.

*Environment Canada 1972. Canada Land Inventory soil capability for agriculture. Report No. 2.

(3) How to Determine Special Crop Suitability Ratings

1. Take any map unit designation from a Haldimand-Norfolk Region soil map.

e.g. BFO 6
d>B

Brantford (BFO) and Beverly (BVY) soils are the components of this map unit, as indicated by the legend on the soil map. This map unit contains approximately 70 percent of BFO soils and 30 percent of BVY soils.

2. To determine suitability ratings from the tables, first find the soil component name (in alphabetical order on the left hand side of the tables in the column entitled "Soil map unit component"). The map symbol for that soil component is shown on the same line in the next column.

e.g. Soil Map Unit Component	Map Symbol
Brantford	BFO
Beverly	BVY

3. Next, move horizontally to the column entitled "Slope classes". Each soil map unit component is associated with a slope class, shown in the denominator of each map unit designation.

e.g. BFO 6
d>B

In this example, d slopes (5 - 9 percent) are associated with the dominant (approximately 70 percent) BFO map unit component, while B slopes (0 - 2 percent) are associated with the other (approximately 30 percent) BVY map unit component.

4. After determining the appropriate slope class, move horizontally in the table to the desired crop or crop group, e.g. from Table 1, Crop Group 6 - labrusca grapes. The soil suitability rating for labrusca grapes on Brantford soils on d slopes is P-F (Poor to Fair). Beverly soils on B slopes also have a P-F suitability rating. Because the ratings are the same, the map

unit component is rated as P-F for labrusca grapes. The rating system consists of seven suitability ratings: Good (G), Fair to Good (F-G), Fair (F), Poor to Fair (P-F), Poor (P), Very Poor (VP) and Unsuitable (U).

5. After determining the soil suitability rating, move down vertically in the table to the rows that indicate whether ratings should change if management factors, such as drainage or irrigation, are being carried out. For example, the Poor to Fair rating for Brantford soils on d slopes will not change for labrusca grapes if the soils are drained or irrigated. But for the other component of the map unit symbol BFO 6, which is BVY, the rating on B slopes for labrusca grapes will change if drainage is improved. It will improve by +1 from P-F to F, with drainage. The soil suitability rating of the map unit is therefore 70 percent P-F and 30 percent F. If +1 was indicated opposite irrigation, the rating would also improve accordingly. When management factors would not be expected to affect the ratings, a dash (-) is shown. All ratings but G and U may be positively affected by drainage improvement, or by irrigation, on appropriate soils.

Acknowledgments

Appreciation is expressed to H. Hombach, Agriculture Canada, for word processing and editorial assistance; D. Irvine and B. Fisher, University of Guelph, for desk top publishing and design; C. Fitzgibbon, University of Guelph, for general advice and assistance, J. Alberts for manuscript collation and distribution.

**Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the
Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**				
				4	5	6	7	8			
Alluvium 1	1-ALU	B C,c		U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Alluvium 1 very shallow phase	1-ALU.V	B C,c		U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Alluvium 2	2-ALU	B C,c		U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Alluvium 3	3-ALU	B C,c		U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Alluvium 4	4-ALU	B C,c		U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Alluvium 4 Coarse Phase	4-ALU.C	B C,c		U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Beach	BSC		NOT RATED								
Berrien	BRR	B C,c D,d		P-F	P	P-F	F	F	F	F	F
				P-F	P	P-F	F	F	F	F	F
				P	P	P	F	P-F	P-F	F	F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+1	-	-	-	-	-	-	+1
Berrien heavy phase	BRR.H	B C,c D,d		P-F	P	P-F	F	F	F	F	F
				P-F	P	P-F	F	F	F	F	F
				P	P	P	F	P-F	P-F	F	F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+1	-	-	-	-	-	-	+1
Berrien till phase	BRR.T	B C,c D,d		P-F	P	P-F	F	F	F	F	F
				P-F	P	P-F	F	F	F	F	F
				P	P	P	F	P-F	P-F	F	F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+1	-	-	-	-	-	-	+1

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**							
				1	2	3	4	5	6	7	8
Beverly	BVY	B C,c D,d		U	U	U	F	P-F	P-F	P-F	P
				U	U	U	F	P-F	P-F	P-F	P
				U	U	U	F	P	P	P-F	VP
			Drainage	-	-	-	+1	+1	+1	+1	+1
			Irrigation	-	-	-	-	-	-	-	-
Beverly coarse phase	BVY.C	B C,c D,d		U	U	U	F	F	P-F	P-F	P-F
				U	U	U	F	F	P-F	P-F	P-F
				U	U	U	F	P-F	P	P-F	P
			Drainage	-	-	-	+1	+1	+1	+1	+1
			Irrigation	-	-	-	-	-	-	-	-
Beverly loamy phase	BVY.L	B C,c D,d		U	U	U	F	F	P-F	P-F	P
				U	U	U	F	F	P-F	P-F	P
				U	U	U	F	P-F	P	P-F	VP
			Drainage	-	-	-	+1	+1	+1	+1	+1
			Irrigation	-	-	-	-	-	-	-	-
Beverly shallow phase	BVY.S	B C,c D,d		U	U	U	U	P-F	P-F	P	P
				U	U	U	U	P-F	P-F	P	P
				U	U	U	U	P	P	P	VP
			Drainage	-	-	-	-	+1	+2	+1	+1
			Irrigation	-	-	-	-	-	-	-	-
Beverly very shallow phase	BVY.V	B C,c D,d		U	U	U	U	U	P	U	VP
				U	U	U	U	U	P	U	VP
				U	U	U	U	U	VP	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Bookton	BOO	B C,c D,d E,e		F	P-F	F	F-G	F-G	F-G	F-G	F-G
				F	P-F	F	F-G	F-G	F-G	F-G	F-G
				P-F	P-F	P-F	F-G	F	F	F-G	F
				P-F	P	U	F	F	F	F	P-F
			Drainage	-	-	-	-	-	-	-	-
Bookton till phase	BOO.T	B C,c D,d E,e		P	P-F	F	F-G	F-G	F-G	F-G	F-G
				F	P-F	F	F-G	F-G	F-G	F-G	F-G
				P-F	P-F	P-F	F,G	F	F	F-G	F
				P-F	P	U	F	F	F	F	P-F
			Drainage	-	-	-	-	-	-	-	-
Brady	BAY	B C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F
				P-F	F	F	P-F	P-F	P-F	P-F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+2	+1	+1	+1	+2	-	+1	+1

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
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3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

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				1	2	3	4	5	6	7	8
Brady loamy phase	BAY.L	B C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F
				P-F	F	F	P-F	P-F	P-F	P-F	P-F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+2	+1	+1	+1	+2	-	+1	+1
Brant	BRT	B C,c D,d E,e F,f G,g		F-G	F	F-G	F-G	G	G	F-G	F-G
				F-G	F	F-G	F-G	G	G	F-G	F-G
				F	F	P-F	F-G	F-G	F-G	F-G	F
				F	P	U	F	F-G	F-G	F	P-F
				U	U	U	P-F	U	U	P-F	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	+1	-	-	-	-	-	-	+1
Brant coarse phase	BRT.C	B C,c D,d E,e F,f G,g		F-G	F	F-G	F-G	G	G	F-G	F-G
				F-G	F	F-G	F-G	G	G	F-G	F-G
				F	F	P-F	F-G	F-G	F-G	F-G	F
				F	P	U	F	F-G	F-G	F	P-F
				U	U	U	P-F	U	U	P-F	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	+1	-	-	-	-	-	-	+1
Brant very shallow phase	BRT.V	B C,c D,d E,e F,f G,g		U	U	U	U	VP	VP	U	P
				U	U	U	U	VP	VP	U	P
				U	U	U	U	VP	U	U	VP
				U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	+2	-	+1
Brantford	BFO	B C,c D,d E,e F,f G,g		U	U	U	F-G	F	F	F	P-F
				U	U	U	F-G	F	F	F	P-F
				U	U	U	F-G	P-F	P-F	F	P
				U	U	U	F	P-F	P-F	P-F	P
				U	U	U	P-F	U	U	P	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Brantford coarse phase	BFO.C	B C,c D,d E,e		U	U	U	F-G	F-G	F	F	F
				U	U	U	F-G	F-G	F	F	F
				U	U	U	F-G	F	P-F	F	P-F
				U	U	U	F	F	P-F	P-F	P-F
				-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

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Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**				
							4	5	6	7	8
Brantford loamy phase	BFO.L	B		U	U	U	F-G	F-G	F	F	P-F
		C,c		U	U	U	F-G	F-G	F	F	P-F
		D,d		U	U	U	F-G	F	P-F	F	P
		E,e		U	U	U	F	F	P-F	P-F	P
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Brantford shallow phase	BFO.S	B		U	U	U	U	F	F	P	P-F
		C,c		U	U	U	U	F	F	P	P-F
		D,d		U	U	U	U	P-F	P-F	P	P
		E,e		U	U	U	U	P-F	P-F	P	P
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
Brantford very shallow phase	BFO.V	B		U	U	U	U	VP	VP	U	P
		C,c		U	U	U	U	VP	VP	U	P
		D,d		U	U	U	U	VP	U	U	VP
		E,e		U	U	U	U	U	U	U	U
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
Brooke	BOK	B		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
Burford	BUF	B		F-G	F-G	F-G	F	F	F	F	F
		C,c		F-G	F-G	F-G	F	F	F	F	F
		D,d		F	F-G	F	P-F	P-F	P-F	F	P-F
		E,e		F	P-F	U	U	P-F	U	P-F	P
		F,f		U	U	U	U	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+2	+1	+1	+1
Burford shallow phase	BUF.S	B		U	U	U	U	P-F	P-F	P	F
		C,c		U	U	U	U	P-F	P-F	P	F
		D,d		U	U	U	U	P	P	P	P-F
		E,e		U	U	U	U	P	P	P	P
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	+1
Colwood	CWO	B		VP	VP	VP	P	VP	VP	P	VP
		C,c		VP	VP	VP	P	VP	VP	P	VP
			Drainage	+2	+1	+1	+2	+2	+2	+2	+3
			Irrigation	+1	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
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				1	2	3	4	5	6	7	8	
Colwood coarse phase	CWO.C	B C,c		VP	VP	VP	P	P	VP	P	P	
				VP	VP	VP	P	P	VP	P	P	
				+2	+1	+1	+2	+2	+2	+2	+2	+3
			Drainage Irrigation	+1	-	-	-	-	-	-	-	-
Colwood peaty phase	CWO.P	B		U	U	U	VP	U	U	U	U	
				-	-	-	+1	-	-	-	-	-
				-	-	-	-	-	-	-	-	-
			Drainage Irrigation	-	-	-	-	-	-	-	-	-
Dune	DUN		N O T	R A T E D								
Farmington	FRM	B C,c D,d E,e F,f G,g		U	U	U	U	U	U	U	U	
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-
Fox	FOX	B C,c D,d E,e F,f G,g		F	F-G	F-G	F	F	F	F	F	
				F	F-G	F-G	F	F	F	F	F	F
				P-F	F-G	F	F	P-F	F-F	F	P-F	P-F
				P-F	P-F	U	P-F	P-F	P-F	P-F	P	P
				U	U	U	P	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-
Fox shallow phase	FOX.S	B C,c D,d E,e F,f G,g		U	U	U	U	P-F	P-F	P	P-F	
				U	U	U	U	P-F	P-F	P	P	P-F
				U	U	U	U	P	P	P	P	P
				U	U	U	U	P	P	P	P	VP
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-
Fox very shallow phase	FOX.V	B C,c D,d E,e F,f G,g		U	U	U	U	VP	VP	U	P-F	
				U	U	U	U	VP	VP	U	U	P-F
				U	U	U	U	U	U	U	U	P
				U	U	U	U	U	U	U	U	P
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

**Crop Groups

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Viniifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**							
				1	2	3	4	5	6	7	8
Gobles	GOB	B C,c D,d		P	VP	P	F-G	P-F	F	F	P-F
				P	VP	P	F-G	P-F	F	F	P-F
				VP	VP	VP	F-G	P	P-F	F	P
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1
Gobles coarse phase	GOB.C	B C,c D,d		P	VP	P	F-G	F	F	F	F
				P	VP	P	F-G	F	F	F	F
				VP	VP	VP	F-G	P-F	P-F	F	P-F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1
Gobles loamy phase	GOB.L	B C,c D,d		P	VP	P	F-G	F	F	F	P-F
				P	VP	P	F-G	F	F	F	P-F
				VP	VP	VP	F-G	P-F	P-F	F	P
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1
Granby	GNY	B C,c		VP	VP	VP	P	VP	VP	VP	VP
				VP	VP	VP	P	VP	VP	VP	VP
				+2	+2	+2	+2	+2	+2	+2	+2
			Drainage Irrigation	-	-	-	-	+1	-	-	-
Granby loamy phase	GNY.L	B C,c		VP	VP	VP	P	VP	VP	VP	VP
				VP	VP	VP	P	VP	VP	VP	VP
				+2	+2	+2	+2	+2	+2	+2	+2
			Drainage Irrigation	-	-	-	-	+1	-	-	-
Granby peaty phase	GNY.P	B C,c		U	U	U	VP	U	U	U	U
				U	U	U	VP	U	U	U	U
				-	-	-	-	-	-	-	-
			Drainage Irrigation	-	-	-	-	-	-	-	-
Haldimand	HIM	B C,c D,d		U	U	U	P-F	VP	P	P	U
				U	U	U	P-F	VP	P	P	U
				U	U	U	P-F	VP	P	P	U
			Drainage Irrigation	-	-	-	+1	+1	+1	+1	-
Haldimand coarse phase	HIM.C	B C,c D,d		U	U	U	P-F	P	P	P	VP
				U	U	U	P-F	P	P	P	VP
				U	U	U	P-F	P	P	P	U
			Drainage Irrigation	-	-	-	+1	+1	+1	+1	+1
Haldimand loamy phase	HIM.L	B C,c D,d		U	U	U	P-F	P	P	P	U
				U	U	U	P-F	P	P	P	U
				U	U	U	P-F	P	P	P	U
			Drainage Irrigation	-	-	-	+1	+1	+1	+1	-

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****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**							
				1	2	3	4	5	6	7	8
Haldimand shallow phase	HIM.S	B		U	U	U	U	VP	P	VP	U
		C,c		U	U	U	U	VP	P	VP	U
		D,d		U	U	U	U	VP	P	VP	U
			Drainage Irrigation	-	-	-	-	+1	+1	+1	-
Hampden	HMP	B		U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Kelvin	KVN	B		VP	VP	VP	P	VP	VP	VP	VP
		C,c		VP	VP	VP	P	VP	VP	VP	VP
			Drainage Irrigation	+1	+1	+1	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-
Kelvin coarse phase	KVN.C	B		VP	VP	VP	P	VP	VP	VP	VP
		C,c		VP	VP	VP	P	VP	VP	VP	VP
			Drainage Irrigation	+1	+1	+1	+2	+3	+2	+2	+3
				-	-	-	-	-	-	-	-
Kelvin peaty phase	KVN.P	B		U	U	U	U	U	U	U	U
		C,c		U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-
Lincoln	LIC	B		U	U	U	VP	U	VP	VP	U
		C,c		U	U	U	VP	U	VP	VP	U
			Drainage Irrigation	-	-	-	+1	-	+1	+1	-
				-	-	-	-	-	-	-	-
Lincoln coarse phase	LIC.C	B		U	U	U	VP	U	VP	VP	VP
		C,c		U	U	U	VP	U	VP	VP	VP
			Drainage Irrigation	-	-	-	+1	-	+1	+1	+1
				-	-	-	-	-	-	-	-
Lincoln loamy phase	LIC.L	B		U	U	U	VP	U	VP	VP	U
		C,c		U	U	U	VP	U	VP	VP	U
			Drainage Irrigation	-	-	-	+1	-	+1	+1	-
				-	-	-	-	-	-	-	-
Lincoln peaty phase	LIC.P	B		U	U	U	U	U	U	U	U
		C,c		U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-
Lincoln shallow phase	LIC.S	B		U	U	U	VP	U	VP	VP	U
		C,c		U	U	U	VP	U	VP	VP	U
			Drainage Irrigation	-	-	-	+1	-	+1	+1	-
				-	-	-	-	-	-	-	-

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****Crop Groups**

1. Peaches, apricots, nectarines
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3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

**Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the
Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**				
							4	5	6	7	8
Lincoln very shallow phase	LIC.V	B C,c		U	U	U	U	U	VP	U	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Lonsdale	LDL	B		U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Lowbanks	LOW	B C,c		U	U	U	U	U	U	U	VP
				U	U	U	U	U	U	U	VP
			Drainage	-	-	-	-	-	-	-	+2
			Irrigation	-	-	-	-	-	-	-	-
Marsh	MAR		N O T	R A T E D							
Maplewood	MPW	B C,c		U	U	U	P	VP	VP	P	VP
				U	U	U	P	VP	VP	P	VP
			Drainage	-	-	-	+2	+2	+2	+2	+3
			Irrigation	-	-	-	-	-	-	-	-
Muriel	MUI	B C,c D,d E,e F,f G,g		P-F	P-F	P-F	G	F	F-G	F-G	F
				P-F	P-F	P-F	G	F	F-G	F-G	F
				P	P-F	P	G	P-F	F	F-G	P-F
				P	P	U	F-G	P-F	F	F	P
				U	U	U	P-F	U	U	P-F	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
				P-F	P-F	P-F	G	F-G	F-G	F-G	F-G
				P-F	P-F	P-F	G	F-G	F-G	F-G	F-G
Muriel coarse phase	MUI.C	B C,c D,d E,e F,f G,g		P	P-F	P	G	F	F	F-G	F
				P	P	U	F-G	F	F	F	P-F
				U	U	U	P-F	U	U	P-F	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
				P-F	P-F	P-F	G	F	F-G	F-G	F
				P-F	P-F	P-F	G	F	F-G	F-G	F
				P	P-F	P	G	P-F	F	F-G	P-F
				P	P	U	F-G	P-F	F	F	P
Muriel loamy phase	MUI.L	B C,c D,d E,e F,f G,g		U	U	U	P-F	U	U	P-F	U
				U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-

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****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**				
							4	5	6	7	8
Niagara	NGR	B		U	U	U	P-F	VP	P	P	U
		C,c		U	U	U	P-F	VP	P	P	U
		D,d		U	U	U	P-F	VP	P	P	U
			Drainage	-	-	-	+1	+1	+1	+1	-
			Irrigation	-	-	-	-	-	-	-	-
Niagara coarse phase	NGR.C	B		U	U	U	P-F	P	P	P	VP
		C,c		U	U	U	P-F	P	P	P	VP
		D,d		U	U	U	P-F	P	P	P	U
			Drainage	-	-	-	+1	+1	+1	+1	+1
			Irrigation	-	-	-	-	-	-	-	-
Normandale	NDE	B		F	P-F	F-G	P-F	F-G	F	F	F
		C,c		F	P-F	F-G	P-F	F-G	F	F	F
		D,d		P-F	P-F	F	P-F	F	P-F	F	P-F
			Drainage	+1	+1	+1	+1	+2	+1	+1	+1
			Irrigation	+1	-	+1	+1	-	-	+1	+1
Normandale coarse phase	NDE.C	B		F	P-F	F-G	P-F	F-G	F	F	F
		C,c		F	P-F	F-G	P-F	F-G	F	F	F
		D,d		P-F	P-F	F	P-F	F	P-F	F	P-F
			Drainage	+1	+1	+1	+1	+2	+1	+1	+1
			Irrigation	+1	-	+1	+1	-	-	+1	+1
Oakland	OKL	B		P-F	F	F	P-F	P-F	P-F	P-F	P-F
		C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F
		D,d		P-F	F	P-F	P-F	P	P	P-F	P
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+2	+1	+1	+1	+2	-	+1	+1
Oakview	OVW	B		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Ontario	OTI	B		U	U	U	F	P	P-F	P-F	P
		C,c		U	U	U	F	P	P-F	P-F	P
		D,d		U	U	U	F	P	P	P-F	P
		E,e		U	U	U	P-F	P	P	P	P
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Ontario coarse phase	OTI.C	B		U	U	U	F	P-F	P-F	P-F	P-F
		C,c		U	U	U	F	P-F	P-F	P-F	P-F
		D,d		U	U	U	F	P	P	P-F	P
		E,e		U	U	U	P-F	P	P	P	VP
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

**Crop Groups

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

**Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the
Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**							
				1	2	3	4	5	6	7	8
Plainfield	PFD	B		P-F	F	F	P-F	P-F	P-F	P-F	P-F
		C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F
		D,d		P	F	P-F	P-F	P	P	P-F	P
		E,e		P	U	U	P	P	P	P	P
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+2	+1	+1	+1
Plainfield dune phase	PFD.D	B		P-F	F	F	P-F	P-F	P-F	P-F	P-F
		C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F
		D,d		P	F	P-F	P-F	P	P	P-F	P
		E,e		P	U	U	P	P	P	P	P
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+2	+1	+1	+1
Quarry	QUA		N O T	R A T E D							
Ridge	RID		N O T	R A T E D							
St. Williams	SLI	B		VP	U	VP	P	VP	VP	P	VP
		C,c		VP	U	VP	P	VP	VP	P	VP
			Drainage	+1	-	+1	+2	+2	+2	+2	+3
			Irrigation	+1	-	-	-	-	-	-	-
Scarp	SCA		N O T	R A T E D							
Scotland	STD	B		F-G	F-G	F-G	F	F	F	F	F
		C,c		F-G	F-G	F-G	F	F	F	F	F
		D,d		F	F-G	F	F	P-F	P-F	F	P-F
		E,e		F	P-F	U	P-F	P-F	U	P-F	P
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+2	+1	+1	+1
Seneca	SNA	B		F	F	F	G	F-G	F-G	F-G	F
		C,c		F	F	F	G	F-G	F-G	F-G	F
		D,d		P-F	F	P-F	G	F	F	F-G	P-F
		E,e		P-F	P-F	U	F-G	F	F	F	P
		F,f		P	U	U	P-F	U	U	P-F	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-

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Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**							
				1	2	3	4	5	6	7	8
Seneca coarse phase	SNA.C	B		F	F	F	G	G	F-G	F-G	F-G
		C,c		F	F	F	G	G	F-G	F-G	F-G
		D,d		P-F	F	P-F	G	F-G	F	F-G	F
		E,e		P-F	P-F	U	F-G	F-G	F	F	P-F
		F,f		P	U	U	P-F	U	U	P-F	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Seneca shallow phase	SNA.S	B		U	U	U	U	F	F	P	F
		C,c		U	U	U	U	F	F	P	F
		D,d		U	U	U	U	P-F	P-F	P	P-F
		E,e		U	U	U	U	P-F	P-F	P	P
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	+1	-	-
Seneca very shallow phase	SNA.V	B		U	U	U	U	VP	VP	U	P-F
		C,c		U	U	U	U	VP	VP	U	P-F
		D,d		U	U	U	U	U	U	U	P
		E,e		U	U	U	U	U	U	U	P
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	+2	-	+1
Silver Hill	SIH	B		VP	U	VP	P	VP	VP	P	VP
		C,c		VP	U	VP	P	VP	VP	P	VP
			Drainage	+1	-	+1	+2	+2	+2	+2	+3
			Irrigation	+1	-	-	-	-	-	-	-
Smithville	SHV	B		U	U	U	F	P-F	P-F	P-F	P
		C,c		U	U	U	F	P-F	P-F	P-F	P
		D,d		U	U	U	F	P	P	P-F	VP
		E,e		U	U	U	P-F	P	P	P	VP
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Smithville coarse phase	SHV.C	B		U	U	U	F	F	P-F	P-F	P-F
		C,c		U	U	U	F	F	P-F	P-F	P-F
		D,d		U	U	U	F	P-F	P	P-F	P
		E,e		U	U	U	P-F	P-F	P	P	P
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-

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3. Sour cherries

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6. Labrusca grapes

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Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**		6	7	8
Smithville loamy phase	SHV.L	B		U	U	U	F	P-F	P-F	P-F	P
		C,c		U	U	U	F	P-F	P-F	P-F	P
		D,d		U	U	U	F	P	P	P-F	VP
		E,e		U	U	U	P-F	P	P	P	VP
		F,f		U	U	U	P	U	U	P	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Smithville shallow phase	SHV.S	B		U	U	U	U	P-F	P-F	P	P
		C,c		U	U	U	U	P-F	P-F	P	P
		D,d		U	U	U	U	P	P	VP	VP
		E,e		U	U	U	U	P	P	VP	VP
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Smithville very shallow phase	SHV.V	B		U	U	U	U	VP	VP	U	VP
		C,c		U	U	U	U	VP	VP	U	VP
		D,d		U	U	U	U	U	U	U	U
		E,e		U	U	U	U	U	U	U	U
		F,f		U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Styx	SYX	B		U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-
Tavistock	TVK	B		P-F	P	P-F	F	F	F-G	F	F
		C,c		P-F	P	P-F	F	F	F-G	F	F
		D,d		P	VP	P	F	P-F	F	F	P-F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+1	-	-	-	-	-	-	+1
Toledo	TLD	B		U	U	U	VP	VP	VP	VP	VP
		C,c		U	U	U	VP	VP	VP	VP	VP
			Drainage	-	-	-	+2	+2	+2	+2	+1
Toledo coarse phase	TLD.C	B		U	U	U	VP	P	VP	VP	P-F
		C,c		U	U	U	VP	P	VP	VP	P-F
			Drainage	-	-	-	+2	+2	+2	+2	+1

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

**Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the
Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**					
				4	5	6	7	8				
Toledo peaty phase	TLD.P	B C,c		U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-
Toledo shallow phase	TLD.S	B C,c		U	U	U	U	VP	VP	VP	VP	VP
				U	U	U	U	VP	VP	VP	VP	VP
			Drainage Irrigation	-	-	-	-	+2	+2	+1	+1	-
Toledo very shallow phase	TLD.V	B C,c		U	U	U	U	U	VP	U	U	U
				U	U	U	U	U	VP	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-
Tuscola	TUC	B C,c D,d		F	P-F	F	F	F-G	F-G	F	F	F
				F	P-F	F	F	F-G	F-G	F	F	F
			Drainage Irrigation	P-F +1	P-F +1	P +1	F +1	F +1	F +1	F +1	P-F +1	P-F +1
Tuscola coarse phase	TUC.C	B C,c D,d		F	P-F	F	F	F-G	F-G	F	F-G	F-G
				F	P-F	F	F	F-G	F-G	F	F-G	F-G
			Drainage Irrigation	P-F +1	P-F +1	P +1	F +1	F +1	F +1	F +1	P +1	P +1
Tuscola shallow phase	TUC.S	B C,c D,d		U	U	U	U	P-F	P-F	VP	P-F	P-F
				U	U	U	U	P-F	P-F	VP	P-F	P-F
			Drainage Irrigation	U	U	U	U	P	P	VP	P	P
Tuscola very shallow phase	TUC.V	B C,c D,d		U	U	U	U	U	P	U	P	P
				U	U	U	U	U	P	U	P	P
			Drainage Irrigation	U	U	U	U	U	U	U	U	U
Urban Land	ULD		NOT RATED									
Vanessa	VSS	B C,c		VP	VP	VP	P	VP	VP	VP	VP	VP
				VP	VP	VP	P	VP	VP	VP	VP	VP
			Drainage Irrigation	+2	+2	+2	+2	+2	+2	+2	+2	+2
Vanessa peaty phase	VSS.P	B C,c		U	U	U	VP	U	U	U	U	U
				U	U	U	VP	U	U	U	U	U
			Drainage Irrigation	-	-	-	+1	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

**Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the
Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**							
				1	2	3	4	5	6	7	8
Vittoria	VIT	B		F	P-F	F	F	F-G	F	F	F
		C,c		F	P-F	F	F	F-G	F	F	F
		D,d		P-F	P-F	P	F	F	P-F	F	P-F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1
Walsher	WSH	B		F-G	F	F-G	F-G	G	F-G	F-G	F-G
		C,c		F-G	F	F-G	F-G	G	F-G	F-G	F-G
		D,d		F	F	P-F	F-G	F-G	F	F-G	F
		E,e		F	P	U	F	F-G	F	F	P-F
Walsingham	WAM	B		U	U	U	P-F	U	U	P-F	U
		C,c		-	-	-	-	-	-	-	-
		D,d		+1	-	-	-	-	-	+1	+1
			Drainage Irrigation	+1	-	-	-	-	-	+1	+1
Waterin	WRN	B		P	P-F	P-F	P-F	P	P	P-F	P
		C,c		P	P-F	P-F	P-F	P	P	P-F	P
		D,d		P	P-F	P-F	P-F	VP	VP	P-F	VP
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1
Waterin loamy phase	WRN.L	B		+1	+1	+1	+1	+2	-	+1	+1
		C,c		VP	VP	VP	VP	VP	VP	VP	VP
				VP	VP	VP	VP	VP	VP	VP	VP
			Drainage Irrigation	+2	+2	+2	+2	+2	+2	+2	+2
Wattford	WAT	B		-	-	-	-	+1	-	-	-
		C,c		F-G	F	G	F-G	F-G	F-G	F	F-G
		D,d		F-G	F	G	F-G	F-G	F-G	F	F-G
		E,e		F	F	F	F-G	F	F	F	F
Wauseon	WUS	F,f		F	P	U	P-F	F	F	P-F	P-F
		G,g		U	U	U	P	U	U	P	U
				U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-
Wattford	WAT	B		+1	-	-	-	+1	-	+1	+1
		C,c		U	U	U	P	VP	VP	P	VP
		D,d		U	U	U	P	VP	VP	P	VP
		E,e		-	-	-	+2	+2	+2	+2	+3
Wauseon peaty phase	WUS.P	B		-	-	-	-	-	-	-	-
		C,c		U	U	U	VP	U	U	U	U
				U	U	U	VP	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

**Table 1. Agricultural land suitability ratings for tree fruits, grapes and small fruits in the
Regional Municipality of Haldimand - Norfolk**

Soil map unit component	Map symbol	Slope classes	Management factors *	1	2	3	Crop Groups**				
							4	5	6	7	8
Wauseon till phase	WUS.T	B C,c	Drainage Irrigation	U	U	U	P	VP	VP	P	VP
				U	U	U	P	VP	VP	P	VP
				-	-	-	+2	+2	+2	+2	+3
				-	-	-	-	-	-	-	-
Welland	WLL	B C,c	Drainage Irrigation	U	U	U	VP	U	VP	VP	U
				U	U	U	VP	U	VP	VP	U
				-	-	-	+1	-	+1	+1	-
				-	-	-	-	-	-	-	-
Welland coarse phase	WLL.C	B C,c	Drainage Irrigation	U	U	U	VP	U	VP	VP	VP
				U	U	U	VP	U	VP	VP	VP
				-	-	-	+1	-	+1	+1	+1
				-	-	-	-	-	-	-	-
Welland loamy phase	WLL.L	B C,c	Drainage Irrigation	U	U	U	VP	U	VP	VP	U
				U	U	U	VP	U	VP	VP	U
				-	-	-	+1	-	+1	+1	-
				-	-	-	-	-	-	-	-
Wilsonville	WIL	B C,c D,d E,e F,f G,g	Drainage Irrigation	F-G	F-G	F-G	F	F	F	F	F
				F-G	F-G	F-G	F	F	F	F	F
				F	F-G	F	F	P-F	P-F	F	P-F
				F	P-F	U	P-F	P-F	U	P-F	P
				U	U	U	P	U	U	P	U
				U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+2	+1	+1	+1
				-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-
Wilsonville coarse phase	WIL.C	B C,c D,d E,e F,f G,g	Drainage Irrigation	F-G	F-G	F-G	F	F-G	F	F	F-G
				F-G	F-G	F-G	F	F-G	F	F	F-G
				F	F-G	F	F	F	P-F	F	F
				F	P-F	U	P-F	F	U	P-F	P-F
				U	U	U	P	U	U	P	U
				U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-
Wilsonville loamy phase	WIL.L	B C,c D,d E,e F,f G,g	Drainage Irrigation	F-G	F-G	F-G	F	F-G	F	F	F-G
				F-G	F-G	F-G	F	F-G	F	F	F-G
				F	F-G	F	P-F	F	P-F	F	F
				F	P-F	U	U	F	U	P-F	P-F
				U	U	U	U	U	U	P	U
				U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Peaches, apricots, nectarines
2. Sweet cherries
3. Sour cherries

4. Pears, plums
5. Vinifera grapes
6. Labrusca grapes

7. Apples
8. Strawberries, raspberries

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Alluvium 1	1-ALU	B C,c		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Alluvium 1 very shallow phase	1-ALU.V	B C,c		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Alluvium 2	2-ALU	B C,c		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Alluvium 3	3-ALU	B C,c		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Alluvium 4	4-ALU	B C,c		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Alluvium 4 coarse phase	4-ALU.C	B C,c		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Beach	BSC		N O T R A T E D											
Berrien	BRR	B C,c D,d		P-F	F	F	F	F	F-G	F	F	F	F	F
				P-F	P-F	F	P-F	P-F	F-G	P-F	P-F	F	F	P-F
				P	U	P-F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+1	-	-	-	-	-	-	-	-	-	-
Berrien heavy phase	BRR.H	B C,c D,d		P-F	F	F	F	F	F-G	F	F	F	F	F
				P-F	P-F	F	P-F	P-F	F-G	P-F	P-F	F	F	P-F
				P	U	P-F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
			Drainage	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
			Irrigation	+1	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Berrien till phase	BRR.T	B C,c D,d	Drainage Irrigation	P-F	F	F	F	F	F-G	F	F	F	F	F
				P-F	P-F	F	P-F	P-F	F-G	P-F	P-F	F	F	P-F
				P	U	P-F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	-	-	-	-	-	-	-	-	-	-
Beverly	BVY	B C,c D,d	Drainage Irrigation	VP	VP	P	P-F	F-G	P-F	F	P-F	P-F	P-F	P-F
				VP	U	P	P	F	P-F	P-F	P	P-F	P-F	P
				U	U	VP	VP	P-F	P	P-F	P	P	P	P
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Beverly coarse phase	BVY.C	B C,c D,d	Drainage Irrigation	P	P	P-F	F	G	F	F-G	F	F	F	F
				P	VP	P-F	P-F	F-G	F	F	P-F	F	F	P-F
				VP	VP	P	P	F	P-F	F	P-F	P-F	P-F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Beverly loamy phase	BVY.L	B C,c D,d	Drainage Irrigation	VP	P	P-F	P-F	F-G	P-F	F-G	F	F	F	F
				VP	VP	P-F	P	F	P-F	F	P-F	F	F	P-F
				U	VP	P	VP	P-F	P	F	P-F	P-F	P-F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Beverly shallow phase	BVY.S	B C,c D,d	Drainage Irrigation	VP	VP	P	P-F	F	P-F	F	P-F	P-F	P-F	P-F
				VP	U	P	P	P-F	P-F	P-F	P	P-F	P-F	P
				U	U	VP	VP	P	P	P-F	P	P	P	P
				+1	+1	+1	+1	+1	+1	+1	+2	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Beverly very shallow phase	BVY.V	B C,c D,d	Drainage Irrigation	U	U	U	P	P-F	P	P-F	P	P	P	P
				U	U	U	U	P	P	P	VP	P	P	VP
				U	U	U	U	U	U	P	VP	U	VP	VP
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Bookton	BOO	B C,c D,d E,e	Drainage Irrigation	F	F-G	F-G	F-G	F-G	G	F-G	F-G	F-G	F-G	F-G
				F	F	F-G	F	F	G	F	F	F-G	F-G	F
				P-F	U	F	F	P-F	P-G	F	F	F	F	F
				P	U	P-F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
				-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Bookton till phase	BOO.T	B C,c D,d E,e		F	F-G	F-G	F-G	F-G	G	F-G	F-G	F-G	F-G	F-G
				F	F	F-G	F	F	G	F	F	F-G	F-G	F
				P-F	U	F	F	P-F	F-G	F	F	F	F	F
				P	U	P-F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brady	BAY	B C,c		F	F	F	F	P-F	P-F	P-F	P-F	F	F	P-F
				F	F	F	F	P-F	P-F	P-F	P-F	F	F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	+1	+1	+1	+1	-	-	-	-	+1	-
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brady loamy phase	BAY.L	B C,c		F	F	F	F	P-F	P-F	P-F	P-F	F	F	P-F
				F	F	F	F	P-F	P-F	P-F	P-F	F	F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	+1	+1	+1	+1	-	-	-	-	+1	-
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brant	BRT	B C,c D,d E,e F,f G,g		F	F-G	F-G	F-G	G	F-G	G	G	G	F-G	G
				F	F	F-G	F	F-G	F-G	F-G	F-G	G	F-G	F-G
				P-F	U	F	F	F	F	F-G	F-G	F-G	F	F-G
				P	U	P-F	P-F	P-F	P-F	F	F	F	P-F	F
				U	U	U	U	U	U	U	U	U	U	U
Brant coarse phase	BRT.C	B C,c D,d E,e F,f G,g		F-G	G	G	G	G	G	G	G	G	G	G
				F-G	F-G	G	F-G	F-G	G	F-G	F-G	G	G	F-G
				F	U	F-G	F-G	F	F-G	F-G	F-G	F-G	F-G	F-G
				P-F	U	F	F	P-F	F	F	F	F	F	F
				U	U	U	U	U	U	U	U	U	U	U
Brant very shallow phase	BRT.V	B C,c D,d E,e F,f G,g		VP	VP	P	P-F	P-F	P-F	F	F	P-F	P-F	P-F
				VP	U	U	P	P	P-F	P-F	P-F	P-F	P-F	P
				U	U	U	P	U	P	P-F	P-F	P	P	P
				U	U	U	U	U	U	P	P	U	U	VP
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
				+1	+1	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce, radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Brantford	BFO	B		P	P	P-F	F	F-G	F	F-G	F	F	F	F
		C,c		P	VP	P-F	P-F	F	F	F	P-F	F	F	P-F
		D,d		U	U	P	P-F	F	P-F	F	P-F	P-F	P-F	P-F
		E,e		U	U	U	P	P-F	P	P-F	P	P	P	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brantford coarse phase	BFO.C	B		P-F	P-F	F	F-G	G	F-G	G	F-G	F-G	F-G	F-G
		C,c		P-F	P	F	F	F-G	F-G	F-G	F	F-G	F-G	F
		D,d		U	U	P-F	F	F-G	F	F-G	F	F	F	F
		E,e		U	U	U	P-F	F	P-F	F	P-F	P-F	P-F	P-F
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brantford loamy phase	BFO.L	B		P	P-F	F	F	F-G	F	G	F-G	F-G	F-G	F-G
		C,c		P	U	F	P-F	F	F	F-G	F	F-G	F-G	F
		D,d		U	U	P-F	P-F	F	P-F	F-G	F	F	F	F
		E,e		U	U	U	P	P-F	P	F	P-F	P-F	P-F	P-F
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brantford shallow phase	BFO.S	B		P	P	P-F	F	F-G	F	F-G	F	F	F	F
		C,c		P	VP	P-F	P-F	F	F	F	P-F	F	F	P-F
		D,d		U	U	P	P-F	F	P-F	F	P-F	P-F	P-F	P-F
		E,e		U	U	U	P	P-F	P	P-F	P	P	P	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Brantford very shallow phase	BFO.V	B		VP	VP	P	P-F	P-F	P-F	F	P-F	P-F	P-F	P-F
		C,c		VP	U	U	P	P	P-F	P-F	P	P-F	P-F	P
		D,d		U	U	U	P	U	P	P-F	P	P	P	P
		E,e		U	U	U	U	U	U	P	VP	U	U	VP
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	-	-	-	-	-	-	-	-	-
Brooke	BOK	B		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Burford	BUF	B	Drainage Irrigation	P-F	P	F-G	F	P-F	F	F	F	F	F	F
		C,c		P-F	P	F-G	P-F	P-F	F	F	F	F	F	F
		D,d		P	U	F	P-F	P	P-F	P-F	P-F	P-F	P-F	P-F
		E,e		VP	U	P-F	P	P	P	P	P	P	P	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	-	+1	-	+1	+1	+1
Burford shallow phase	BUF.S	B	Drainage Irrigation	P-F	P	P-F	F	P-F	F	F	F	F	P-F	F
		C,c		P-F	P	P-F	P-F	P-F	F	F	F	F	P-F	F
		D,d		P	U	P	P-F	P	P-F	P-F	P-F	P-F	P	P-F
		E,e		VP	U	VP	P	P	P	P	P	P	VP	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	-	+1	-	+1	+1	+1
Colwood	CWO	B	Drainage Irrigation	P	P	VP	P	P	P	P	P	P	P	P
		C,c		P	VP	VP	VP	VP	P	VP	VP	VP	P	VP
				+2	+2	+2	+2	+2	+2	+3	+2	+3	+2	+3
				-	-	-	-	-	-	-	-	-	-	-
Colwood coarse phase	CWO.C	B	Drainage Irrigation	P	P	P	P	P-F	P	P-F	P	P	P-F	P-F
		C,c		P	VP	P	VP	P	P	P	VP	VP	P-F	P
				+2	+2	+2	+3	+2	+3	+3	+3	+3	+2	+3
				-	-	-	-	-	-	-	-	-	-	-
Colwood peaty phase	CWO.P	B	Drainage Irrigation	P	P-F	U	U	P	VP	P-F	VP	VP	P-F	VP
				+2	+2	-	-	+2	+2	+3	+2	+3	+2	+3
				-	-	-	-	-	-	-	-	-	-	-
Dune	DUN		N O T	R A T E D										
Farmington	FRM	B	Drainage Irrigation	U	U	U	U	U	U	U	U	U	U	U
		C,c		U	U	U	U	U	U	U	U	U	U	U
		D,d		U	U	U	U	U	U	U	U	U	U	U
		E,e		U	U	U	U	U	U	U	U	U	U	U
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-

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****Crop Groups**

- Potatoes
- Carrots, beets, bulb onions, garlic
- Muskmelons, watermelons
- Eggplants, peppers

- Green beans, peas
- Pumpkins, squash
- Cabbages, broccoli
brussels sprouts, cauliflower
- Sweet corn

- Cucumbers
- Celery, lettuce,
radishes
- Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Fox	FOX	B		F-G	F-G	F-G	F-G	P-F	F	F	F	F-G	F-G	F
		C,c		F-G	F-G	F-G	F-G	P-F	F	F	F	F-G	F-G	F
		D,d		F	U	F	F	P	P-F	P-F	P-F	F	F	P-F
		E,e		P-F	U	P-F	P-F	VP	P	P	P	P-F	P-F	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Fox shallow phase	FOX.S	B		F	F-G	F	F	P-F	F	F	F	F-G	F-G	F
		C,c		F	F-G	F	F	P-F	F	F	F	F-G	F-G	F
		D,d		P-F	U	P-F	P-F	P	P-F	P-F	P-F	F	F	P-F
		E,e		P	U	P	P	VP	P	P	P	P-F	P-F	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Fox very shallow phase	FOX.V	B		P	P	P	P-F	P-F	P-F	P-F	P-F	P-F	P-F	P-F
		C,c		P	U	U	P	P	P-F	P-F	P-F	P-F	P-F	P-F
		D,d		U	U	U	P	U	P	P	P	P	P	P
		E,e		U	U	U	U	U	U	VP	VP	U	U	VP
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Gobles	GOB	B		VP	VP	P	F	F-G	P-F	F	P-F	P-F	P-F	F
		C,c		VP	U	P	P-F	F	P-F	P-F	P	P-F	P-F	P-F
		D,d		U	U	VP	P-F	P-F	P	P-F	P	P	P	P-F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Gobles coarse phase	GOB.C	B		P	P	P-F	F-G	G	F	F-G	F	F	F	F-G
		C,c		P	U	P-F	F	F-G	F	F	P-F	F	F	F
		D,d		VP	U	P	F	F	P-F	F	P-F	P-F	P-F	F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Gobles loamy phase	GOB.L	B		VP	P	P-F	F	F-G	P-F	F-G	F	F	F	F-G
		C,c		VP	U	P-F	P-F	F	P-F	F	P-F	F	F	F
		D,d		U	U	P	P-F	P-F	P	F	P-F	P-F	P-F	F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-

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****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce, radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Granby	GNY	B C,c		P	P	VP	P	VP	P	P	P	P	P	P
				P	P	VP	P	VP	P	VP	P	P	P	P
			Drainage Irrigation	+3	+3	+3	+3	+2	+2	+2	+2	+2	+2	+2
Granby loamy phase	GNY.L	B C,c		P	P	VP	VP	VP	P	P	P	P	P	P
				P	P	VP	VP	VP	P	VP	P	P	P	P
			Drainage Irrigation	+3	+3	+3	+3	+3	+2	+2	+2	+2	+2	+2
Granby peaty phase	GNY.P	B C,c		P-F	P-F	U	VP	U	VP	P-F	VP	VP	P-F	VP
				P-F	P-F	U	VP	U	VP	P	VP	VP	P-F	VP
			Drainage Irrigation	+3	+3	-	+3	-	+2	+2	+2	+2	+2	+2
Haldimand	HIM	B C,c D,d		U	U	U	U	P-F	U	P-F	P	P	P	P-F
				U	U	U	U	P	U	P	VP	P	P	P
			Drainage Irrigation	U	U	U	U	VP	U	P	VP	VP	VP	P
Haldimand coarse phase	HIM.C	B C,c D,d		U	U	U	U	F	U	F	P-F	P-F	P-F	F
				U	U	U	U	P-F	U	P-F	P	P-F	P-F	P-F
			Drainage Irrigation	U	U	U	U	P	U	P-F	P	P	P	P-F
Haldimand loamy phase	HIM.L	B C,c D,d		U	U	U	U	P-F	U	F	P-F	P-F	P-F	F
				U	U	U	U	P	U	P-F	P	P-F	P-F	P-F
			Drainage Irrigation	U	U	U	U	VP	U	P-F	P	P	P	P-F
Haldimand shallow phase	HIM.S	B C,c D,d		U	U	U	U	P-F	U	P-F	P	P	P	P-F
				U	U	U	U	P	U	P	VP	P	P	P
			Drainage Irrigation	U	U	U	U	VP	U	P	VP	VP	VP	P
Hampden	HMP	B		VP	VP	U	U	VP	VP	VP	VP	VP	P	U
				+4	+5	-	-	+4	+1	+4	+1	+1	+4	-
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Kelvin	KVN	B C,c		VP	VP	VP	P	P	P	P	P	VP	P	P
				VP	U	VP	VP	VP	P	VP	VP	VP	P	VP
			Drainage Irrigation	+1	+1	+1	+2	+2	+1	+2	+2	+2	+2	+2

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****Crop Groups**

1. Potatoes
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5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Kelvin coarse phase	KVN.C	B C,c		VP	P	P	P	P-F	P	P-F	P-F	P	P-F	P-F
				VP	U	P	VP	P	P	P	P	P	P-F	P
			Drainage Irrigation	+2	+1	+1	+3	+2	+2	+2	+2	+2	+2	+2
Kelvin peaty phase	KVN.P	B C,c		P	P	U	VP	VP	VP	P-F	VP	U	P-F	VP
				P	VP	U	U	U	VP	P	U	U	P-F	U
			Drainage Irrigation	+1	+1	-	+2	+1	+1	+2	+2	-	+2	+2
Lincoln	LIC	B C,c		U	U	U	U	VP	U	P	VP	VP	VP	VP
				U	U	U	U	VP	U	VP	VP	VP	VP	VP
			Drainage Irrigation	-	-	-	-	+1	-	+2	+2	+2	+2	+2
Lincoln coarse phase	LIC.C	B C,c		U	U	U	U	P	U	P-F	P	P	P	P
				U	U	U	U	P	U	P	P	P	P	P
			Drainage Irrigation	-	-	-	-	+1	-	+2	+2	+2	+2	+2
Lincoln loamy phase	LIC.L	B C,c		U	U	U	U	VP	U	P-F	P	P	P	P
				U	U	U	U	VP	U	P	P	P	P	P
			Drainage Irrigation	-	-	-	-	+1	-	+2	+2	+2	+2	+2
Lincoln peaty phase	LIC.P	B C,c		U	U	U	U	U	U	P-F	U	U	P	U
				U	U	U	U	U	U	P	U	U	P	U
			Drainage Irrigation	-	-	-	-	-	-	+2	-	-	+2	-
Lincoln shallow phase	LIC.S	B C,c		U	U	U	U	VP	U	P	VP	VP	VP	VP
				U	U	U	U	VP	U	VP	VP	VP	VP	VP
			Drainage-Irrigation	-	-	-	-	+1	-	+2	+2	+2	+2	+2
Lincoln very shallow phase	LIC.V	B C,c		U	U	U	U	U	U	VP	U	U	VP	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Lonsdale	LDL	B		VP	VP	U	U	VP	VP	VP	VP	VP	P	U
				VP	VP	U	U	VP	VP	VP	VP	VP	P	U
			Drainage Irrigation	+4	+5	-	-	+4	+1	+4	+1	+1	+4	-

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				1	2	3	4	5	6	7	8	9	10	11
Lowbanks	LOW	B C,c		P	P	VP	VP	VP	VP	P	VP	VP	P-F	VP
				P	P	VP	VP	U	VP	VP	VP	VP	P-F	VP
			Drainage	+3	+3	+3	+3	+3	+3	+2	+2	+2	+2	+2
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Marsh	MAR		N O T	R A T E D										
Maplewood	MPW	B C,c		P	P	VP	P	P	P	P	P	P	P	P
				P	VP	VP	VP	VP	P	VP	VP	P	P	VP
			Drainage	+2	+2	+2	+2	+2	+2	+3	+3	+2	+2	+3
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Muriel	MUI	B C,c D,d E,e F,f G,g		P	P	P-F	F-G	G	F	F-G	F	F	F	F-G
				P	U	P-F	F	F-G	F	F	P-F	F	F	F
				U	U	P	F	F	P-F	F	P-F	P-F	P-F	F
				U	U	U	P-F	P-F	P	P-F	P	P	P	P-F
				U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
				P-F	P-F	F	G	G	F-G	G	F-G	F-G	F-G	G
				P-F	P	F	F-G	F-G	F-G	F-G	F	F-G	F-G	F-G
				P-F	U	P-F	F-G	F	F	F-G	F	F	F	F-G
				U	U	U	F	P-F	P-F	F	P-F	P-F	P-F	F
Muriel coarse phase	MUI.C	B C,c D,d E,e F,f G,g		U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
				P	P-F	F	F-G	G	F	G	F-G	F-G	F-G	G
				P	P	F	F	F-G	F	F-G	F	F-G	F-G	F-G
				P	U	P-F	F	F	P-F	F-G	F	F	F	F-G
				U	U	U	P-F	U	P	F	P-F	P-F	P-F	F
				U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Muriel loamy phase	MUI.L	B C,c D,d E,e F,f G,g		P	P-F	F	F-G	G	F	G	F-G	F-G	F-G	G
				P	P	F	F	F-G	F	F-G	F	F-G	F-G	F-G
				P	U	P-F	F	F	P-F	F-G	F	F	F	F-G
				U	U	U	P-F	U	P	F	P-F	P-F	P-F	F
				U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
				P	P	VP	VP	VP	P	P	VP	VP	P	P
				U	U	U	U	P-F	U	P	VP	VP	P	P
				U	U	U	U	P	U	P	VP	VP	VP	P
			Drainage	-	-	-	-	+1	-	+1	+1	+1	+1	+1
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Niagara	NGR	B C,c D,d		U	U	U	U	F	U	P-F	P	P	P	P-F
				U	U	U	U	P-F	U	P	P	P	P	P
				U	U	U	U	P	U	P	VP	VP	VP	P
			Drainage	-	-	-	-	+1	-	+1	+1	+1	+1	+1
			Irrigation	-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce, radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Niagara coarse phase	NGR.C	B C,c D,d	Drainage Irrigation	U	U	U	U	F	U	F	P-F	P-F	P-F	F
				U	U	U	U	P-F	U	P-F	P	P-F	P-F	P-F
				U	U	U	U	P	U	P-F	P	P	P	P-F
				-	-	-	-	+1	-	+1	+1	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
Normandale	NDE	B C,c D,d	Drainage Irrigation	P-F	F	F-G	F	F	F-G	F	F	F-G	F	F
				P-F	P-F	F-G	P-F	P-F	F-G	P-F	P-F	F-G	F	P-F
				P	U	F	P	P	F	P-F	P-F	F	P-F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	-	-	-	-	-	-	-	-	-	-
Normandale coarse phase	NDE.C	B C,c D,d	Drainage Irrigation	P-F	F	F-G	F	F	F-G	F	F	F-G	F	F
				P-F	P-F	F-G	P-F	P-F	F-G	P-F	P-F	F-G	F	P-F
				P	U	F	P	P	F	P-F	P-F	F	P-F	P-F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	-	-	-	-	-	-	-	-	-	-
Oakland	OKL	B C,c D,d	Drainage Irrigation	P-F	P-F	F	F	P-F	P-F	P-F	P-F	F	F	P-F
				P-F	P-F	F	F	P-F	P-F	P-F	P-F	F	F	P-F
				P	P	P-F	P-F	P	P	P	P	P-F	P-F	P
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	+1	+1	+1	-	-	-	-	-	+1	-
Oakview	OVW	B	Drainage Irrigation	VP	VP	U	U	VP	VP	VP	VP	VP	P	U
				+4	+5	-	-	+4	+1	+4	+1	+1	+4	-
				-	-	-	-	-	-	-	-	-	-	-
Ontario	OTI	B C,c D,d E,e F,f G,g	Drainage Irrigation	U	U	U	P	F	P	F	F	F	P-F	F
				U	U	U	VP	P-F	P	P-F	P-F	F	P-F	P-F
				U	U	U	VP	P	VP	P-F	P-F	P-F	P	P-F
				U	U	U	U	P	U	P	U	U	U	P
				U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Ontario coarse phase	OTLC	B C,c D,d E,e F,f G,g	Drainage Irrigation	U	VP	VP	P-F	F-G	P-F	F-G	F-G	F-G	F	F-G
				U	VP	VP	P	F	P-F	F	F	F-G	F	F
				U	U	U	P	P-F	P	F	F	F	P-F	F
				U	U	U	VP	P-F	VP	P-F	U	U	U	P-F
				U	U	U	U	U	U	U	U	U	U	U
				U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Plainfield	PFD	B		P-F	F	F	P-F	P-F	P-F	P-F	P-F	P-F	P-F	P-F
		C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F	P-F	P-F	P-F
		D,d		P	U	P-F	P	P	P	P	P	P	P	P
		E,e		U	U	P	U	U	U	U	U	U	U	U
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Plainfield dune phase	PFD.D	B		P-F	F	F	P-F	P-F	P-F	P-F	P-F	P-F	P-F	P-F
		C,c		P-F	F	F	P-F	P-F	P-F	P-F	P-F	P-F	P-F	P-F
		D,d		P	U	P-F	P	P	P	P	P	P	P	P
		E,e		U	U	P	U	U	U	U	U	U	U	U
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Quarry	QUA		N O T	R A T E D										
Ridge	RID		N O T	R A T E D										
St. Williams	SLI	B		P	P	VP	P	P	P	P	P	P	VP	P
		C,c		P	VP	VP	VP	VP	P	VP	VP	P	VP	VP
			Drainage	+2	+3	+3	+3	+2	+2	+2	+2	+2	+2	+2
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Scarp	SCA		N O T	R A T E D										
Scotland	STD	B		F-G	F-G	F-G	F-G	P-F	F	F	F	F-G	F-G	F
		C,c		F-G	F-G	F-G	F-G	P-F	F	F	F	F-G	F-G	F
		D,d		F	U	F	F	P	P-F	P-F	P-F	F	F	P-F
		E,e		P-F	U	P-F	P-F	P	P	P	P	P-F	P-F	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Seneca	SNA	B		P-F	VP	F	F-G	F-G	F-G	F-G	F-G	F-G	F	G
		C,c		P-F	U	F	F	F	F-G	F	F	F-G	F	F-G
		D,d		U	U	P-F	F	P-F	F	F	F	F	P-F	F-G
		E,e		U	U	U	P-F	P	P-F	P-F	P-F	P-F	P	F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-

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****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
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4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Seneca coarse phase	SNA.C	B		F	P	F-G	G	F-G	G	G	G	G	F-G	G
		C,c		F	U	F-G	F-G	F	G	F-G	F-G	G	F-G	F-G
		D,d		U	U	F	F-G	P-F	F-G	F-G	F-G	F-G	F	F-G
		E,e		U	U	U	F	P	F	F	F	F	P-F	F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Seneca shallow phase	SNA.S	B		P-F	VP	F	F	F	F	F-G	F-G	F	F	F-G
		C,c		P-F	U	F	P-F	P-F	F	F	F	F	F	F
		D,d		U	U	P-F	P-F	P	P-F	F	F	P-F	P-F	F
		E,e		U	U	U	P	VP	P	P-F	P-F	P	P	P-F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	+1	+1	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Seneca very shallow phase	SNA.V	B		P	U	P	P-F	P-F	P-F	P-F	P-F	P-F	P-F	P-F
		C,c		P	U	U	P	P	P-F	P	P	P-F	P-F	P
		D,d		U	U	U	P	U	P	P	P	P	P	P
		E,e		U	U	U	U	U	U	VP	VP	U	U	VP
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	+1	-	-	-	-	-	-	-	-	+1	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Silver Hill	SIH	B		P	P	VP	P	P	P	P	P	P	VP	P
		C,c		P	VP	VP	VP	VP	P	VP	VP	P	VP	VP
			Drainage	+2	+3	+3	+3	+2	+2	+2	+2	+2	+2	+2
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
Smithville	SHV	B		U	U	U	U	F	U	F	P-F	P-F	P-F	F
		C,c		U	U	U	U	P-F	U	P-F	P	P-F	P-F	P-F
		D,d		U	U	U	U	P	U	P-F	P	P	P	P-F
		E,e		U	U	U	U	P	U	P	U	U	U	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
			Drainage	-	-	-	-	-	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Smithville coarse phase	SHV.C	B	Drainage Irrigation	U	U	U	P	G	U	F-G	F	F	F	F-G
		C,c		U	U	U	VP	F-G	U	F	P-F	F	F	F
		D,d		U	U	U	VP	F	U	F	P-F	P-F	P-F	F
		E,e		U	U	U	U	F	U	P-F	U	U	U	P-F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Smithville loamy phase	SHV.L	B	Drainage Irrigation	U	U	U	P	F-G	U	F-G	F	F	F	F-G
		C,c		U	U	U	VP	F	U	F	P-F	F	F	F
		D,d		U	U	U	VP	P-F	U	F	P-F	P-F	P-F	F
		E,e		U	U	U	U	P-F	U	P-F	U	U	U	P-F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Smithville shallow phase	SHV.S	B	Drainage Irrigation	U	U	U	U	F	U	F	P-F	P-F	P-F	F
		C,c		U	U	U	U	P-F	U	P-F	P	P-F	P-F	P-F
		D,d		U	U	U	U	P	U	P-F	P	P	P	P-F
		E,e		U	U	U	U	P	U	P	U	U	U	P
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Smithville very shallow phase	SHV.V	B	Drainage Irrigation	U	U	U	U	P-F	U	P-F	P	P	P	P-F
		C,c		U	U	U	U	P	U	P	P	P	P	P
		D,d		U	U	U	U	U	U	P	VP	VP	VP	P
		E,e		U	U	U	U	U	U	U	U	U	U	U
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-
Styx	SYX	B	Drainage Irrigation	VP	VP	U	U	VP	VP	VP	VP	VP	P	U
				+4	+5	-	-	+4	+1	+4	+1	+1	+4	-
				-	-	-	-	-	-	-	-	-	-	-
Tavistock	TVK	B	Drainage Irrigation	P-F	P-F	F	F	F-G	F	F-G	F-G	F-G	F	F-G
		C,c		P-F	P	F	P-F	F	F	F	F	F-G	F	F
		D,d		P	U	P-F	P-F	P-F	P-F	F	F	F	P-F	F
				+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	-	-	-	-	-	-	-	-	-	-

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3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Toledo	TLD	B C,c		VP	VP	VP	P	P	VP	P	P	VP	P	P
				VP	U	VP	VP	VP	VP	VP	VP	VP	P	VP
			Drainage Irrigation	+1	+1	+1	+2	+2	+2	+2	+2	+2	+2	+2
Toledo coarse phase	TLD.C	B C,c		P	P	P	P-F	P-F	P-F	P-F	P-F	P	P-F	P-F
				P	U	P	P	P	P-F	P	P	P	P-F	P
			Drainage Irrigation	+1	+1	+1	+2	+2	+1	+2	+2	+2	+2	+2
Toledo peaty phase	TLD.P	B C,c		P	P	U	VP	VP	VP	P-F	VP	U	P-F	VP
				P	U	U	U	U	VP	P	U	U	P-F	U
			Drainage Irrigation	+1	+1	-	+2	+1	+1	+2	+2	-	+2	+2
Toledo shallow phase	TLD.S	B C,c		VP	VP	VP	P	P	VP	P	P	VP	P	P
				VP	U	VP	VP	VP	VP	VP	VP	VP	P	VP
			Drainage Irrigation	+1	+1	+1	+2	+2	+2	+2	+2	+2	+2	+2
Toledo very shallow phase	LD.V	B C,c		U	U	U	U	U	U	P	P	U	P	P
				U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
Tuscola	TUC	B C,c D,d		P-F	F	F	F	F-G	F	F-G	F-G	F-G	F	F-G
				P-F	P-F	F	P-F	F	F	F	F	F-G	F	F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Tuscola coarse phase	TUC.C	B C,c D,d		P-F	F-G	F-G	F-G	F-G	F-G	F-G	F-G	F-G	F-G	F-G
				P-F	F	F-G	F	F	F-G	F	F	F-G	F-G	F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Tuscola shallow phase	TUC.S	B C,c D,d		P	P-F	P-F	P-F	F	P-F	F	F	F	P-F	F
				P	P	P-F	P	P-F	P-F	P-F	P-F	F	P-F	P-F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Tuscola very shallow phase	TUC.V	B C,c D,d		U	U	U	VP	P	VP	P-F	P	VP	P	P
				U	U	U	U	VP	U	P	U	U	P	VP
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Urban Land	ULD		N O T	R A T E D										
Vanessa	VSS	B		P	P	VP	P	VP	P	P	P	P	P	P
		C,c		P	P	VP	P	VP	P	VP	P	P	P	P
			Drainage Irrigation	+3	+3	+3	+3	+2	+2	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
Vanessa peaty phase	VSS.P	B		P-F	P-F	U	VP	VP	VP	P-F	VP	VP	P-F	VP
		C,c		P-F	P-F	U	VP	VP	VP	P	VP	VP	P-F	VP
			Drainage Irrigation	+3	+3	-	+3	+1	+2	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
Vittoria	VIT	B		F	F	F-G	F	F	F-G	F	F	F	F	F
		C,c		F	P-F	F-G	P-F	P-F	F-G	P-F	P-F	F	F	P-F
		D,d		P-F	U	F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	-	-	-	-	-	-	-	-	-	-
Walsher	WSH	B		F-G	F-G	G	F-G	F-G	G	F-G	F-G	F-G	F-G	F-G
		C,c		F-G	F	G	F	F	G	F	F	F-G	F-G	F
		D,d		F	U	F-G	F	P	F-G	F	F	F	F	F
		E,e		P-F	U	F	P-F	P	F	P-F	P-F	P-F	P-F	P-F
		F,f		U	U	U	U	U	U	U	U	U	U	U
			Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
				+1	+1	-	+1	+1	-	+1	-	+1	+1	+1
Walsingham	WAM	B		P	P-F	P-F	P	P-F	P	P	P	P	P	P
		C,c		P	P-F	P-F	P	P-F	P	P	P	P	P	P
		D,d		U	U	P	VP	P	VP	VP	VP	VP	VP	VP
			Drainage Irrigation	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
				+1	+1	+1	+1	+1	-	-	-	-	+1	-
Waterin	WRN	B		P	P	VP	P	VP	VP	VP	VP	VP	P	VP
		C,c		P	P	VP	P	VP	VP	VP	VP	VP	VP	VP
			Drainage Irrigation	+2	+3	+3	+2	+2	+2	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
Waterin loamy phase	WRN.L	B		P	P	VP	P	VP	VP	VP	VP	VP	P	VP
		C,c		P	P	VP	P	VP	VP	VP	VP	VP	VP	VP
			Drainage Irrigation	+2	+3	+3	+2	+2	+2	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce, radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Wattford	WAT	B C,c D,d E,e F,f G,g	Drainage Irrigation	F-G	F-G	F-G	F-G	F-G	G	F-G	F-G	G	F-G	F-G
				F-G	F	F-G	F-G	F	G	F	F	G	F-G	F
				F	U	F	F	P-F	F-G	F	F	F-G	F	F
				P-F	U	P-F	P-F	P	F	P-F	P-F	F	P-F	P-F
				U	U	U	U	U	U	U	U	U	U	U
Wauseon	WUS	B C,c	Drainage Irrigation	U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	-	+1	-	-	+1	+1
				P	P	VP	P	P	P	P	P	P	P	P
				P	VP	VP	VP	VP	P	VP	VP	P	P	VP
Wauseon peaty phase	WUS.P	B C,c	Drainage Irrigation	+2	+2	+3	+3	+2	+3	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
				P-F	P-F	U	VP	U	VP	P-F	VP	VP	P-F	VP
				P-F	P	U	U	U	VP	P	U	VP	P-F	U
				+2	+2	-	+3	-	+2	+2	+2	+2	+2	+2
Wauseon till phase	WUS.T	B C,c	Drainage Irrigation	-	-	-	-	-	-	-	-	-	-	-
				P	P	VP	P	P	P	P	P	P	P	P
				P	VP	VP	VP	VP	P	VP	VP	P	P	VP
				+2	+2	+2	+3	+2	+3	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
Welland	WLL	B C,c	Drainage Irrigation	U	U	U	U	VP	U	P	VP	VP	VP	VP
				U	U	U	U	VP	U	VP	VP	VP	VP	VP
				-	-	-	-	+1	-	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
				U	U	U	U	P	U	P-F	P	P	P	P
Welland	WLL.C	B C,c	Drainage Irrigation	U	U	U	U	P	U	P	P	P	P	P
				U	U	U	U	P	U	P	P	P	P	P
				-	-	-	-	+1	-	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
				U	U	U	U	VP	U	P-F	P	P	P	P
Welland loamy phase	WLL.L	B C,c	Drainage Irrigation	U	U	U	U	VP	U	P	P	P	P	P
				U	U	U	U	VP	U	P	P	P	P	P
				-	-	-	-	+1	-	+2	+2	+2	+2	+2
				-	-	-	-	-	-	-	-	-	-	-
				U	U	U	U	U	U	U	U	U	U	U
Wilsonville	WIL	B C,c D,d E,e F,f G,g	Drainage Irrigation	F	P	F-G	F	P-F	F	F	F	F	F	F
				F	P	F-G	F	P-F	F	F	F	F	F	F
				P-F	U	F	P-F	P	P-F	P-F	P-F	P-F	P-F	P-F
				P	U	P-F	P	P	P	P	P	P	P	P
				U	U	U	U	U	U	U	U	U	U	U
Wilsonville	WIL	B C,c D,d E,e F,f G,g	Drainage Irrigation	U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	-	+1	-	+1	+1	+1
				-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
3. Muskmelons, watermelons
4. Eggplants, peppers

5. Green beans, peas
6. Pumpkins, squash
7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 2. Agricultural land suitability ratings for vegetable crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop Groups**										
				1	2	3	4	5	6	7	8	9	10	11
Wilsonville coarse phase	WIL.C	B	Drainage Irrigation	F-G	P-F	F-G	F-G	P-F	F	F-G	F-G	F-G	F-G	F-G
		C,c		F-G	P-F	F-G	F-G	P-F	F	F-G	F-G	F-G	F-G	F-G
		D,d		F	U	F	F	P	P-F	F	F	F	F	F
		E,e		P-F	U	P-F	P-F	P	P	P-F	P-F	P-F	P-F	P-F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	-	+1	-	+1	+1	+1
Willsonville loamy phase	WIL.L	B	Drainage Irrigation	F-G	P-F	F-G	F-G	P-F	F-G	F-G	F-G	F-G	F-G	F-G
		C,c		F-G	P-F	F-G	F-G	P-F	F-G	F-G	F-G	F-G	F-G	F-G
		D,d		F	U	F	F	P	F	F	F	F	F	F
		E,e		P-F	U	P-F	P-F	P	P-F	P-F	P-F	P-F	P-F	P-F
		F,f		U	U	U	U	U	U	U	U	U	U	U
		G,g		U	U	U	U	U	U	U	U	U	U	U
				-	-	-	-	-	-	-	-	-	-	-
				+1	+1	+1	+1	+1	-	+1	-	+1	+1	+1

*A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not be expected to affect the ratings, a dash (-) is shown.

****Crop Groups**

1. Potatoes
2. Carrots, beets, bulb onions, garlic
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5. Green beans, peas
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7. Cabbages, broccoli
brussels sprouts, cauliflower
8. Sweet corn

9. Cucumbers
10. Celery, lettuce,
radishes
11. Tomatoes

Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Alluvium 1	1-ALU	B C,c		U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Alluvium 1 very shallow phase	1-ALU.V	B C,c		U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Alluvium 2	2-ALU	B C,c		U	U	U	U	P-F	P-F
				U	U	U	U	P-F	P
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Alluvium 3	3-ALU	B C,c		U	U	U	U	P-F	P-F
				U	U	U	U	P	P
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Alluvium 4	4-ALU	B C,c		U	U	U	U	P-F	P
				U	U	U	U	P	P
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Alluvium 4 coarse phase	4-ALU.C	B C,c		U	U	U	U	P-F	P-F
				U	U	U	U	P-F	P
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Beach	BSC		N O T	R A T E D					
Berrien	BRR	B C,c D,d		P-F	P-F	P	P-F	F	F
				P-F	P-F	P	P-F	P-F	F
				P	P	VP	P-F	P	P-F
			Drainage	+1	+1	+1	+1	+1	+1
Berrien heavy phase	BRR.H	B C,c D,d		P-F	P-F	P	P-F	F	F
				P-F	P-F	P	P-F	P-F	F
				P	P	VP	P-F	P	P-F
			Drainage	+1	+1	+1	+1	+1	+1
Berrien till phase	BRR.T	B C,c D,d		P-F	P-F	P	P-F	F	F
				P-F	P-F	P	P-F	P-F	F
				P	P	VP	P-F	P	P-F
			Drainage	+1	+1	+1	+1	+1	+1
				-	-	+1	-	-	-
				-	-	-	-	-	-
				-	-	-	-	-	-
				-	-	-	-	-	-

* A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not effect the ratings, a dash (-) is shown.

Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Beverly	BVY	B C,c D,d	Drainage Irrigation	U	VP	U	VP	F-G	P-F
				U	VP	U	VP	F	P
				U	U	U	VP	P-F	VP
				-	+1	-	+1	+1	+1
				-	-	-	-	-	-
Beverly coarse phase	BVY.C	B C,c D,d	Drainage Irrigation	VP	P	VP	P	G	F
				VP	P	VP	P	F-G	P-F
				U	VP	U	P	F	P
				+1	+1	+1	+1	+1	+1
				-	-	+1	-	-	-
Beverly loamy phase	BVY.L	B C,c D,d	Drainage Irrigation	VP	P	VP	P	F-G	P-F
				VP	P	VP	P	F	P
				U	VP	U	P	P-F	VP
				+1	+1	+1	+1	+1	+1
				-	-	-	-	-	-
Beverly shallow phase	BVY.S	B C,c D,d	Drainage Irrigation	U	VP	U	VP	F	P-F
				U	VP	U	VP	P-F	P
				U	U	U	VP	P	VP
				-	+1	-	+1	+1	+1
				-	-	-	-	-	-
Beverly very shallow phase	BVY.V	B C,c D,d	Drainage Irrigation	U	U	U	U	P-F	P-F
				U	U	U	U	P	P
				U	U	U	U	U	U
				-	-	-	-	-	-
				-	-	-	-	-	-
Bookton	BOO	B C,c D,d E,e	Drainage Irrigation	F	F	P-F	F-G	F-G	F-G
				F	F	P-F	F-G	F	F-G
				P-F	P-F	P	F-G	P-F	F
				P	P	VP	F	P	P-F
				-	-	-	-	-	-
Bookton till phase	BOO.T	B C,c D,d E,e	Drainage Irrigation	+1	+1	+1	+1	-	-
				F	F	P-F	F-G	F-G	F-G
				F	F	P-F	F-G	F	F-G
				P-F	P-F	P	F-G	P-F	F
				P	P	VP	F	P	P-F
Brady	BAY	B C,c	Drainage Irrigation	-	-	-	-	-	-
				+1	+1	+1	+1	-	+1
				+1	+1	+1	+1	-	-
				F	F	F	F	P-F	F-G
				F	F	F	F	P-F	F-G
Brady loamy phase	BAY.L	B C,c	Drainage Irrigation	+1	+1	+1	+1	-	+1
				+1	+1	+1	+1	-	-
				F	F	F	F	P-F	F-G
				F	F	F	F	P-F	F-G
				+1	+1	+1	+1	-	-

* A significant improvement in the ratings as a result of drainage or irrigation is indicated by +1, +2, etc. Where drainage or irrigation would not effect the ratings, a dash (-) is shown.

Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Brant	BRT	B		F-G	F-G	P-F	F-G	G	F-G
		C,c		F-G	F-G	P-F	F-G	F-G	F
		D,d		F	F	P	F-G	F	P-F
		E,e		P-F	P-F	VP	F	P-F	P
		F,f		U	U	U	VP	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	+1	-	-	-
Brant coarse phase	BRT.C	B		F-G	G	P-F	G	G	G
		C,c		F-G	G	P-F	G	F-G	F-G
		D,d		F	F-G	P	G	F	F
		E,e		P-F	F	VP	F-G	P-F	P-F
		F,f		U	U	U	P	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	+1	-	-	-
Brant very shallow phase	BRT.V	B		U	U	U	P	P-F	P-F
		C,c		U	U	U	P	P	P
		D,d		U	U	U	P	U	U
		E,e		U	U	U	VP	U	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Brantford	BFO	B		U	P	U	P-F	G	F
		C,c		U	P	U	P-F	F-G	P-F
		D,d		U	VP	U	P-F	F	P
		E,e		U	U	U	P	P-F	U
		F,f		U	U	U	VP	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Brantford coarse phase	BFO.C	B		P	P-F	VP	F	G	F-G
		C,c		P	P-F	VP	F	F-G	F
		D,d		VP	P	U	F	F	P-F
		E,e		U	U	U	P-F	P-F	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	+1	-	-	-
Brantford loamy phase	BFO.L	B		P	P-F	U	F	G	F
		C,c		P	P-F	U	F	F-G	P-F
		D,d		VP	P	U	F	F	P
		E,e		U	U	U	P-F	P-F	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-

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Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Brantford shallow phase	BFO.S	B		U	P	U	P-F	G	F
		C,c		U	P	U	P-F	F-G	P-F
		D,d		U	VP	U	P-F	F	P
		E,e		U	U	U	P	P-F	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Brantford very shallow phase	BFO.V	B		U	U	U	P	P-F	P-F
		C,c		U	U	U	P	P	P
		D,d		U	U	U	P	U	U
		E,e		U	U	U	VP	U	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Brooke	BOK	B		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Burford	BUF	B		F	VP	P-F	F-G	P-F	G
		C,c		F	VP	P-F	F-G	P-F	G
		D,d		P-F	U	P	F-G	P	F-G
		E,e		P	U	VP	F	P	F
		F,f		U	U	U	VP	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	+1	-	+1	+1	-	-
Burford shallow phase	BUF.S	B		P-F	VP	P-F	P-F	P-F	F
		C,c		P-F	VP	P-F	P-F	P-F	F
		D,d		P	U	P	P-F	P	P-F
		E,e		VP	U	VP	P	P	P
		F,f		U	U	U	VP	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	+1	-	+1	+1	-	-
Colwood	CWO	B		P	P	VP	P	P	P
		C,c		P	P	VP	P	VP	VP
			Drainage	+2	+2	+2	+2	+2	+2
			Irrigation	-	-	+1	-	-	-
Colwood coarse phase	CWO.C	B		P	P-F	P	P	P-F	P-F
		C,c		P	P-F	P	P	P	P
			Drainage	+2	+2	+2	+2	+2	+2
			Irrigation	-	-	+1	-	-	-
Colwood peaty phase	CWO.P	B		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Dune	DUN		N O T	R A T E D					
Farmington	FRM	B		U	U	U	U	U	U
		C,c		U	U	U	U	U	U
		D,d		U	U	U	U	U	U
		E,e		U	U	U	U	U	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
		Drainage Irrigation	-	-	-	-	-	-	
Fox	FOX	B		F-G	F-G	F-G	F-G	P-F	G
		C,c		F-G	F-G	F-G	F-G	P-F	G
		D,d		F	F	F	F-G	P	F-G
		E,e		P-F	P-F	P-F	F	P	F
		F,f		U	U	U	P	U	U
		G,g		U	U	U	U	U	U
		Drainage Irrigation	-	-	-	-	-	-	
Fox shallow phase	FOX.S	B		F-G	F-G	F-G	F-G	P-F	G
		C,c		F-G	F-G	F-G	F-G	P-F	G
		D,d		F	F	F	F-G	P	F-G
		E,e		P-F	P-F	P-F	F	P	F
		F,f		U	U	U	P	U	U
		G,g		U	U	U	U	U	U
		Drainage Irrigation	-	-	-	-	-	-	
Fox very shallow phase	FOX.V	B		P-F	P	P-F	P-F	P-F	P-F
		C,c		P	VP	P	P-F	P	P
		D,d		U	U	U	P-F	U	U
		E,e		U	U	U	U	U	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
		Drainage Irrigation	-	-	-	-	-	-	
Gobies	GOB	B		U	U	U	P	F-G	P-F
		C,c		U	U	U	P	F	P-F
		D,d		U	U	U	P	P-F	P
		Drainage Irrigation	-	-	-	+1	+1	+1	
Gobies coarse phase	GOB.C	B		VP	VP	VP	P-F	G	F
		C,c		VP	VP	VP	P-F	F-G	F
		D,d		U	U	U	P-F	F	P-F
		Drainage Irrigation	+1	+1	+1	+1	+1	+1	

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Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Gobles loamy phase	GOB.L	B		VP	VP	U	P	F-G	P-F
		C,c		VP	VP	U	P	F	P-F
		D,d		U	U	U	P	P-F	P
			Drainage	+1	+1	-	+1	+1	+1
			Irrigation	-	-	-	-	-	-
Granby	GNY	B		P	P	VP	P	VP	P
		C,c		P	P	VP	P	VP	P
			Drainage	+3	+3	+3	+3	+2	+3
Granby loamy phase	GNY.L	B		P	P	VP	P	VP	P
		C,c		P	P	VP	P	VP	P
			Drainage	+3	+3	+3	+3	+2	+3
Granby peaty phase	GNY.P	B		VP	VP	U	VP	U	U
		C,c		VP	VP	U	VP	U	U
			Drainage	+3	+3	-	+3	-	-
Haldimand	HIM	B		U	U	U	U	F	P
		C,c		U	U	U	U	P-F	VP
		D,d		U	U	U	U	P	U
			Drainage	-	-	-	-	+1	+1
			Irrigation	-	-	-	-	-	-
Haldimand coarse phase	HIM.C	B		U	U	U	VP	F-G	P-F
		C,c		U	U	U	VP	F	P
		D,d		U	U	U	VP	P-F	VP
			Drainage	-	-	-	+1	+1	+1
Haldimand loamy phase	HIM.L	B		U	U	U	U	F	P
		C,c		U	U	U	U	P-F	VP
		D,d		U	U	U	U	P	U
			Drainage	-	-	-	-	+1	+1
			Irrigation	-	-	-	-	-	-
Haldimand shallow phase	HIM.S	B		U	U	U	U	F	P
		C,c		U	U	U	U	P-F	VP
		D,d		U	U	U	U	P	U
			Drainage	-	-	-	-	+1	+1
Hampden	HMP	B		U	U	U	U	VP	VP
			Drainage	-	-	-	-	+4	+4
			Irrigation	-	-	-	-	-	-
Kelvin	KVN	B		U	U	U	U	P	P
		C,c		U	U	U	U	VP	P
			Drainage	-	-	-	-	+2	+2
			Irrigation	-	-	-	-	-	-

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Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Kelvin coarse phase	KVN.C	B C,c		VP	VP	VP	VP	P-F	P-F
				VP	VP	VP	VP	P	P-F
			Drainage Irrigation	+1 -	+1 -	+1 +1	+2 -	+2 -	+2 -
Kelvin peaty phase	KVN.P	B C,c		U	U	U	U	VP	U
				U	U	U	U	U	U
			Drainage Irrigation	- -	- -	- -	- -	+1 -	- -
Lincoln	LIC	B C,c		U	U	U	U	VP	VP
				U	U	U	U	VP	VP
			Drainage Irrigation	- -	- -	- -	- -	+1 -	+1 -
Lincoln coarse phase	LIC.C	B C,c		U	U	U	U	P	P
				U	U	U	U	P	P
			Drainage Irrigation	- -	- -	- -	- -	+1 -	+1 -
Lincoln loamy phase	LIC.L	B C,c		U	U	U	U	VP	VP
				U	U	U	U	VP	VP
			Drainage Irrigation	- -	- -	- -	- -	+1 -	+1 -
Lincoln peaty phase	LIC.P	B C,c		U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage Irrigation	- -	- -	- -	- -	- -	- -
Lincoln shallow phase	LIC.S	B C,c		U	U	U	U	VP	VP
				U	U	U	U	VP	VP
			Drainage Irrigation	- -	- -	- -	- -	+1 -	+1 -
Lincoln very shallow phase	LIC.V	B C,c		U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage Irrigation	- -	- -	- -	- -	- -	- -
Lonsdale	LDL	B		U	U	U	U	VP	VP
				-	-	-	-	+4	+4
			Drainage Irrigation	- -	- -	- -	- -	- -	- -
Lowbanks	LOW	B C,c		P	VP	U	VP	U	U
				P	VP	U	VP	U	U
			Drainage Irrigation	+3 -	+3 -	- -	+3 -	- -	- -
Marsh	MAR		N O T	R A T E D					

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Maplewood	MPW	B C,c	Drainage Irrigation	VP	P	U	P	P	P
				VP	P	U	P	VP	VP
				+2	+2	-	+2	+2	+2
				-	-	-	-	-	-
Muriel	MUI	B C,c D,d E,e F,f G,g	Drainage Irrigation	U	U	U	P-F	G	F
				U	U	U	P-F	F-G	F
				U	U	U	P-F	F	P-F
				U	U	U	P	P-F	P
				U	U	U	VP	U	U
				U	U	U	U	U	U
				-	-	-	-	-	-
Muriel coarse phase	MUI.C	B C,c D,d E,e F,f G,g	Drainage Irrigation	P	P	VP	F	G	F-G
				P	P	VP	F	F-G	F-G
				VP	VP	U	F	F	F
				U	U	U	P-F	P-F	P-F
				U	U	U	P	U	U
				U	U	U	U	U	U
				-	-	+1	-	-	-
Muriel loamy phase	MUI.L	B C,c D,d E,e F,f G,g	Drainage Irrigation	P	P	U	F	G	F
				P	P	U	F	F-G	F
				VP	VP	U	F	F	P-F
				U	U	U	P-F	P-F	P
				U	U	U	P	U	U
				U	U	U	U	U	U
				-	-	-	-	-	-
Niagara	NGR	B C,c D,d	Drainage Irrigation	U	U	U	U	F	P
				U	U	U	U	P-F	VP
				U	U	U	U	P	U
				-	-	-	-	+1	+1
Niagara coarse phase	NGR.C	B C,c D,d	Drainage Irrigation	U	U	U	VP	F-G	P-F
				U	U	U	VP	F	P
				U	U	U	VP	P-F	VP
				-	-	-	+1	+1	+1
				-	-	-	-	-	-
Normandale	NDE	B C,c D,d	Drainage Irrigation	F	F	P	P-F	F	F-G
				F	F	P	P-F	P-F	F
				P-F	P-F	VP	P-F	P	P-F
				+1	+1	+1	+1	-	+1

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter- Rapeseed
Normandale coarse phase	NDE.C	B		F	F	P	P-F	F	F-G
		C,c		F	F	P	P-F	P-F	F
		D,d		P-F	P-F	VP	P-F	P	P-F
			Drainage	+1	+1	+1	+1	-	+1
			Irrigation	-	-	+1	-	-	-
Oakland	OKL	B		F	F	F	P-F	P-F	F-G
		C,c		F	F	F	P-F	P-F	F-G
		D,d		P-F	P-F	P-F	P-F	P	F
			Drainage	+1	+1	+1	+1	-	+1
			Irrigation	-	-	+1	-	-	-
Oakview	OVW	B		U	U	U	U	VP	VP
			Drainage	-	-	-	-	+4	+4
			Irrigation	-	-	-	-	-	-
Ontario	OTI	B		U	U	U	U	F-G	P-F
		C,c		U	U	U	U	F	P
		D,d		U	U	U	U	P-F	U
		E,e		U	U	U	U	P-F	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Ontario coarse phase	OTLC	B		U	U	U	P	G	F
		C,c		U	U	U	P	F-G	P-F
		D,d		U	U	U	P	F	U
		E,e		U	U	U	VP	F	U
		F,f		U	U	U	U	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Plainfield	PFD	B		F-G	P-F	F	P-F	P-F	F-G
		C,c		F-G	P-F	F	P-F	P-F	F-G
		D,d		F	P	P-F	P-F	P	F
		E,e		P-F	U	P	P	P	P-F
		F,f		U	U	U	VP	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	-	-
Plainfield dune phase	PFD.D	B		F-G	P-F	F	P-F	P-F	F-G
		C,c		F-G	P-F	F	P-F	P-F	F-G
		D,d		F	P	P-F	P-F	P	F
		E,e		P-F	U	P	P	P	P-F
		F,f		U	U	U	VP	U	U
		G,g		U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	-	-

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop				
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans
Quarry	QUA		N O T		R A T E D			
Ridge	RID		N O T		R A T E D			
St. Williams	SLI	B C,c		P	P	VP	P	P
				P	P	VP	P	VP
			Drainage	+3	+3	+3	+3	+2
			Irrigation	-	-	+1	-	-
Scarp	SCA		N O T		R A T E D			
Scotland	STD	B C,c D,d E,e F,f G,g		F-G	F-G	F	F-G	P-F
				F-G	F-G	F	F-G	P-F
				F	F	P-F	F-G	P
				P-F	P-F	P	F	P
				U	U	U	P	U
				U	U	U	U	U
			Drainage	-	-	-	-	-
			Irrigation	+1	+1	+1	+1	-
Seneca	SNA	B C,c D,d E,e F,f G,g		P-F	VP	U	F	F-G
				P-F	VP	U	F	F
				P	U	U	F	P-F
				U	U	U	P-F	P
				U	U	U	P	U
				U	U	U	U	U
			Drainage	-	-	-	-	-
			Irrigation	-	-	-	-	-
Seneca coarse phase	SNA.C	B C,c D,d E,e F,f G,g		F	P	VP	F-G	F-G
				F	P	VP	F-G	F
				P-F	U	U	F-G	P-F
				U	U	U	F	P
				U	U	U	P-F	U
				U	U	U	U	U
			Drainage	-	-	-	-	-
			Irrigation	-	-	+1	-	-
Seneca shallow phase	SNA.S	B C,c D,d E,e F,f G,g		P-F	VP	U	F	F
				P-F	VP	U	F	P-F
				P	U	U	F	P
				U	U	U	P-F	VP
				U	U	U	P	U
				U	U	U	U	U
			Drainage	-	-	-	-	-
			Irrigation	-	-	-	-	-
Seneca very shallow phase	SNA.V	B C,c D,d E,e F,f G,g		P	U	U	P	P-F
				P	U	U	P	P
				VP	U	U	P	U
				U	U	U	VP	U
				U	U	U	U	U
				U	U	U	U	U
			Drainage	-	-	-	-	-
			Irrigation	-	-	-	-	-

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Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Silver Hill	SIH	B C,c		P	P	VP	P	P	P-F
				P	P	VP	P	VP	P-F
			Drainage	+3	+3	+3	+3	+2	+2
			Irrigation	-	-	+1	-	-	-
Smithville	SHV	B C,c D,d E,e F,f G,g		U	U	U	U	F-G	P-F
				U	U	U	U	F	P
				U	U	U	U	P-F	U
				U	U	U	U	P-F	U
				U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Smithville coarse phase	SHV.C	B C,c D,d E,e F,f G,g		U	U	U	P	G	F
				U	U	U	P	F-G	P-F
				U	U	U	P	F	U
				U	U	U	VP	F	U
				U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Smithville loamy phase	SHV.L	B C,c D,d E,e F,f G,g		U	U	U	U	F-G	P-F
				U	U	U	U	F	P
				U	U	U	U	P-F	U
				U	U	U	U	P-F	U
				U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Smithville shallow phase	SHV.S	B C,c D,d E,e F,f G,g		U	U	U	U	F-G	P-F
				U	U	U	U	F	P
				U	U	U	U	P-F	U
				U	U	U	U	P-F	U
				U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Smithville very shallow phase	SHV.V	B C,c D,d E,e F,f G,g		U	U	U	U	P-F	P
				U	U	U	U	P	VP
				U	U	U	U	U	U
				U	U	U	U	U	U
				U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	-	-	-	-	-	-
Styx	SYX	B		U	U	U	U	VP	VP
			Drainage	-	-	-	-	+4	+4
			Irrigation	-	-	-	-	-	-

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Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Tavistock	TVK	B C,c D,d		P	P-F	U	P	F-G	F
				P	P-F	U	P	F	P-F
				VP	P	U	P	P-F	P
			Drainage Irrigation	+1 -	+1 -	- -	+1 -	+1 -	+1 -
Toledo	TLD	B C,c		U	U	U	U	P	VP
				U	U	U	U	VP	VP
			Drainage Irrigation	- -	- -	- -	- -	+2 -	+2 -
				-	-	-	-	-	-
Toledo coarse phase	TLD.C	B C,c		VP	VP	VP	VP	P-F	P
				VP	VP	VP	VP	P	P
			Drainage Irrigation	+1 -	+1 -	+1 -	+1 -	+2 -	+2 -
				-	-	-	-	-	-
Toledo peaty phase	TLD.P	B C,c		U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage Irrigation	- -	- -	- -	- -	- -	- -
				-	-	-	-	-	-
Toledo shallow phase	TLD.S	B C,c		U	U	U	U	P	VP
				U	U	U	U	VP	VP
			Drainage Irrigation	- -	- -	- -	- -	+2 -	+2 -
				-	-	-	-	-	-
Toledo very shallow phase	TLD.V	B C,c		U	U	U	U	U	U
				U	U	U	U	U	U
			Drainage Irrigation	- -	- -	- -	- -	- -	- -
				-	-	-	-	-	-
Tuscola	TUC	B C,c D,d		F	F	P	P-F	F-G	F
				F	F	P	P-F	F	P-F
				P-F	P-F	VP	P-F	P-F	P
			Drainage Irrigation	+1 -	+1 -	+1 +1	+1 -	+1 -	+1 -
Tuscola coarse phase	TUC.C	B C,c D,d		F	F	P	F	F-G	F-G
				F	F	P	F	F	F
				P-F	P-F	U	F	P-F	P-F
			Drainage Irrigation	+1 -	+1 -	+1 +1	+1 -	+1 -	+1 -
Tuscola shallow phase	TUC.S	B C,c D,d		P-F	P-F	VP	P-F	F	P-F
				P-F	P-F	VP	P-F	P-F	P
				P	P	U	P-F	P	VP
			Drainage Irrigation	+1 -	+1 -	+1 +1	+1 -	+1 -	+1 -
Tuscola very shallow phase	TUC.V	B C,c D,d		U	U	U	U	P	P
				U	U	U	U	VP	VP
				U	U	U	U	U	U
			Drainage Irrigation	- -	- -	- -	- -	- -	- -

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Table 3. Agricultural land suitability ratings for some field crops in the Regional Municipality of Haldimand - Norfolk

Soil map unit component	Map symbol	Slope classes	Management factors *	Crop					
				Asparagus	Peanuts	Tobacco	Ginseng	Soybeans	Winter-Rapeseed
Urban Land	ULD		N O T	R A T E D					
Vanessa	VSS	B C,c		VP	VP	VP	P	VP	P
				VP	VP	VP	P	VP	P
			Drainage	+2	+2	+1	+3	+2	+3
			Irrigation	-	-	+1	-	-	-
Vanessa peaty phase	VSS.P	B C,c		VP	VP	U	P	U	U
				VP	VP	U	P	U	U
			Drainage	+1	+1	-	+2	-	-
			Irrigation	-	-	-	-	-	-
Vittoria	VIT	B C,c D,d		F	F	P	F	F	F
				F	F	P	F	P-F	F
				P-F	P-F	VP	F	P	P-F
			Drainage	+1	+1	+1	+1	+1	+1
Walsher	WSH	B C,c D,d E,e F,f		-	-	+1	-	-	-
			Irrigation	+1	-	+1	-	-	-
				F	F-G	F	F-G	F-G	F-G
				F	F-G	F	F-G	F	F-G
Walsingham	WAM	B C,c D,d		P-F	F	P-F	F-G	P	F
				P	P-F	P	F	P	P-F
				U	U	U	P-F	U	U
			Drainage	-	-	-	-	-	-
Waterin	WRN	B C,c		+1	-	+1	-	-	-
			Irrigation	+1	-	+1	-	-	-
				F	P	P-F	P	P-F	F
				F	P	P-F	P	P-F	F
Waterin loamy phase	WRN.L	B C,c		P	P	VP	P	VP	P
				P	P	VP	P	VP	P
			Drainage	+3	+3	+1	+3	+2	+2
			Irrigation	-	-	+1	-	-	-
Wattford	WAT	B C,c D,d E,e F,f G,g		P	P	VP	P	VP	P
				P	P	VP	P	VP	P
			Drainage	+3	+3	+1	+3	+2	+2
			Irrigation	-	-	+1	-	-	-
Wauseon	WUS	B C,c		F-G	F-G	F-G	F-G	F-G	G
				F-G	F-G	F-G	F-G	F	F-G
				F	F	F	F-G	P-F	F
				F	F	P-F	F	P	P-F
Wattford	WAT	B C,c D,d E,e F,f G,g		U	U	U	P	U	U
				U	U	U	U	U	U
			Drainage	-	-	-	-	-	-
			Irrigation	+1	-	+1	+1	-	-
Wauseon	WUS	B C,c		P	P	VP	P	P	P-F
				P	P	VP	P	VP	P-F
			Drainage	+2	+2	+1	+2	+2	+2
			Irrigation	-	-	+1	-	-	-

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